

# Work Order ID 116201

Tuesday, April 08, 2014 11:23:22 AM

*Ship today*

**\*116201\***

Page 1

Item ID: D4888-041L02

Accept

**\*N900040100\***

Setup Start

**\*NS1\***

Revision ID:

Stop

**\*NS2\***

Item Name: Dome Light Air Vent Assembly, Black

Start Date: 4/8/2014 Start Qty: 2.00

**\*2\***

Cust Item ID:

Required Date: 4/16/2014 Req'd Qty: 2.00

**\*2\***

Customer:

Reference:

Approvals: Process Plan: *ME*

Date: *14-4-8*

Tooling:

Date:

Run Start

**\*NR1\***

QC:

Date:

SPC (Y/N):

Date:

Stop

**\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4888	<i>PA11 A</i>

100

0.00

**\*100\***

HandThermo

Memo

0.00

Hand Finishing Thermoforming

Pick Kit

*2x*

DAS  
*28*  
9-89

*APR 28 2014*

110

0.00

**\*110\***

Small Fab

Memo

0.00

Small Fab

Assemble as per Dwg D4888-041

1) Install air vents

2) Install lights

3) Install rheostats

4) Install wiring harness

*②*

*SAD 14/04/38*

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
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**Work Order ID 116201**

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**\*116201\***

Page 2

Item ID: D4888-041L02

Accept

**\*N900040100\***

Setup Start

**\*NS1\***

Revision ID:

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Item Name: Dome Light Air Vent Assembly, Black

Start Date: 4/8/2014 Start Qty: 2.00

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Required Date: 4/16/2014 Req'd Qty: 2.00

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Run Start

**\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

**\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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120

QC6- Inspect dimensions to drawing

0.00

**\*120\***

QC

Memo

0.00

Quality Control

130

Identify as per dwg &amp; Stock Location: \_\_\_\_\_

0.00

**\*130\***

Packaging

Memo

0.00

Packaging

140

QC21- Final Inspection - Work Order Release

0.00

**\*140\***

QC

Memo

0.00

Quality Control

2

14/5/22 (2)

DAS  
32  
9.89

MLS 14-04-29

MLS 14-04-29

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

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# Picklist Print

Tuesday, April 08, 2014 11:23:21 AM

Page 1

Work Order ID: 116201

**\*116201\***

Parent Item: D4888-041L02

**\*D4888-041L02\***

Parent Item Name: Dome Light Air Vent Assembly, Black

Start Date: 4/8/2014

Required Date: 4/16/2014

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev A New Issue 13/09/13 DL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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D4886-1		Manufactured	No			100	Each	16.0000	2	4			
<b>*D4886-1*</b>									<b>**</b>			DAS	
Air Vent												28	

Location	Loc Qty	Loc Code
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ST137	16	
109261	16	

D4888-1L02		Manufactured	No			100	Each	0.0000	1	2			
<b>*D4888-1L02*</b>									<b>**</b>			DAS	
Dome Light Housing, Black												28	

D4897-041		Manufactured	No			100	Each	4.0000	1	2			
<b>*D4897-041*</b>									<b>**</b>			SAD	14/04/28
Dome Light Wiring													

Location	Loc Qty	Loc Code
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MF4	4	
114334	4	

D4898-1		Manufactured	No			100	Each	117.0000	12	24			
<b>*D4898-1*</b>									<b>**</b>			DAS	APR 28 2014
Screw, Stainless Steel												28	

Location	Loc Qty	Loc Code
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ST126	100	
113458	100	
ST127	17	
107709	17	

24X

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



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Work Order update only ☐

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Doc/Data									
Equip/Tooling									
Handling/Pre									
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Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

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# Picklist Print

Tuesday, April 08, 2014 11:23:21 AM

Page 2

Work Order ID: 116201

**\*116201\***

Parent Item: D4888-041L02

**\*D4888-041L02\***

Parent Item Name: Dome Light Air Vent Assembly, Black

Start Date: 4/8/2014

Required Date: 4/16/2014

Start Qty: 2.00

Required Qty: 2.00

D4906-1 Manufactured No

100 Each 37.0000 1 2

**\*D4906-1\***

Knob

**\*\***

DAS  
28  
9-89

APR 28 2014

Location

Loc Qty

Loc Code

ST126

37

107708

37

2X

MS21042L06

Purchased No

100 Each 524.0000 12 24

**\*MS21042L06\***

Nut

**\*\***

DAS  
28  
9-89

Location

Loc Qty

Loc Code

ST314

524

m127304

20

m127831

104

m128401

200

m128754

200

24X

NAS1149F0663P

Purchased No

100 Each 422.0000 3 6

**\*NAS1149F0663P\***

WASHER

**\*\***

DAS  
28  
9-89

Location

Loc Qty

Loc Code

ST295

422

M126083

22

M128591

400

6X

NAS1149FN632P

Purchased No

100 Each 116.0000 12 24

**\*NAS1149FN632P\***

Washer

**\*\***

DAS  
28  
9-89

Location

Loc Qty

Loc Code

ST295

116

m126926

116

24X

Tuesday, April 08, 2014 11:23:21 AM

Shop Packet Print

Page 2

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



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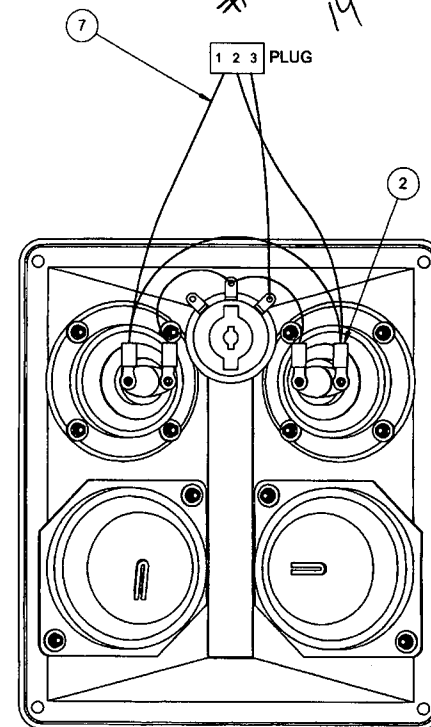
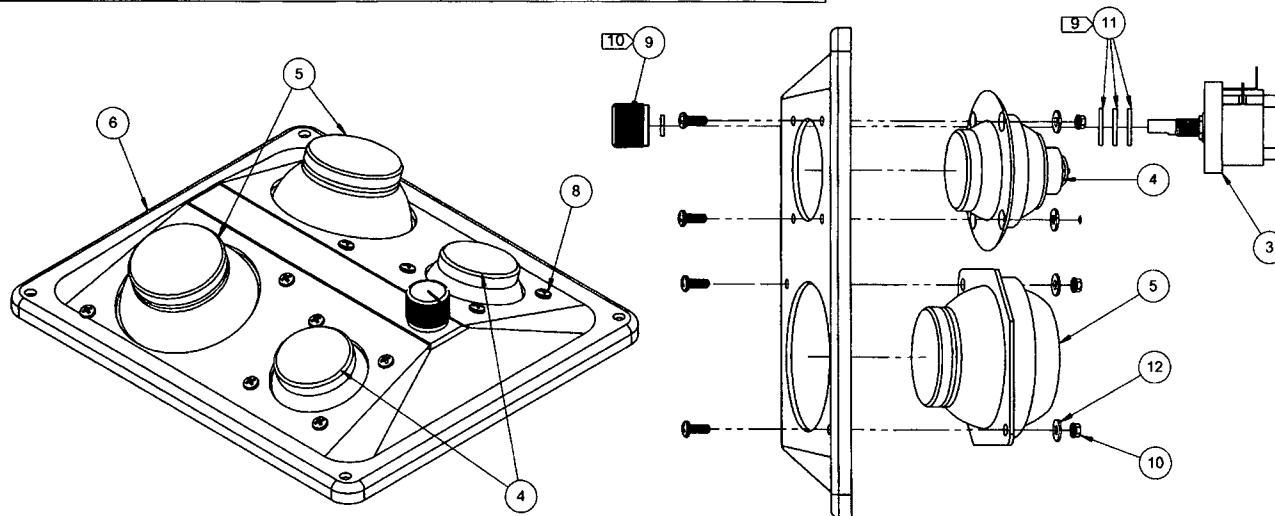
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ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	D4888-041	DOME LIGHT AIR VENT ASSEMBLY
2	4	D4290-21 (REF)	RING TERMINAL (PART OF D4897-041)
3	1	D4864-1 (REF)	RHEOSTAT (PART OF D4897-041)
4	2	D4872-1 (REF)	LIGHT FIXTURE (PART OF D4897-041)
5	2	D4886-1	AIR VENT
6	1	D4888-1	DOME LIGHT HOUSING
7	1	D4897-041	DOME LIGHT WIRING HARNESS
8	12	D4898-1	SCREW
9	1	D4906-1	KNOB
10	12	MS21042L06	NUT
11	3	NAS1149F0663P	WASHER
12	12	NAS1149FN632P	WASHER



RELEASED  
2013-09-16  
WD

# **D4888-041 DOME LIGHT AIR VENT ASSEMBLY**

## **NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 1.43 lbs
- 8) REPLACES GENEVA P/N GA129-12 P112-L
- 9) OPTIONAL: USE ADDITIONAL WASHERS TO SHIM AS REQUIRED
- 10) NUT INCLUDED WITH RHEOSTAT

A	NEW ISSUE	13.07.11
REV.	DESCRIPTION	BY DATE
DESIGN	OS	13.07.11
DRAWN	OS	13.07.11
CHECKED	DE	13.07.11
MFG. APPR.	DE	13.07.11
APPROVED	DE	13.07.11
DE APPR.	DE	13.07.11
DATE	13.07.11	

**DART AEROSPACE USA, INC.**  
KENT, WA

DRAWING NO. **D4888** REV. A  
SHEET 1 OF 3

TITLE **DOME LIGHT AIR VENT ASSY** SCALE NTS

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DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

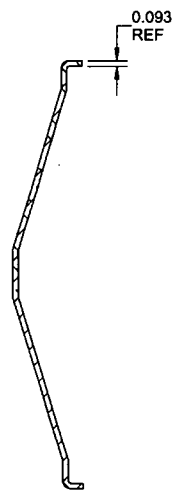
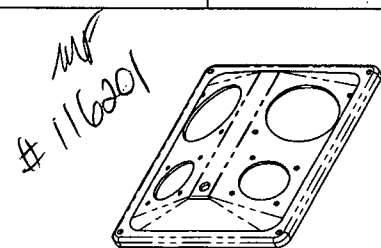
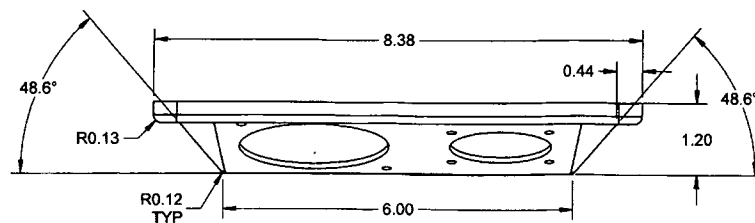
Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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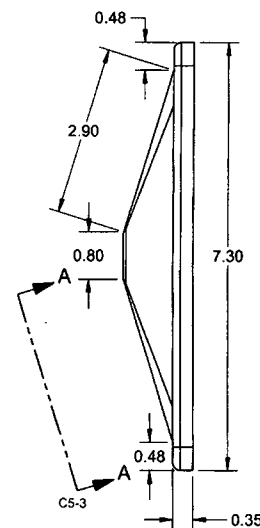
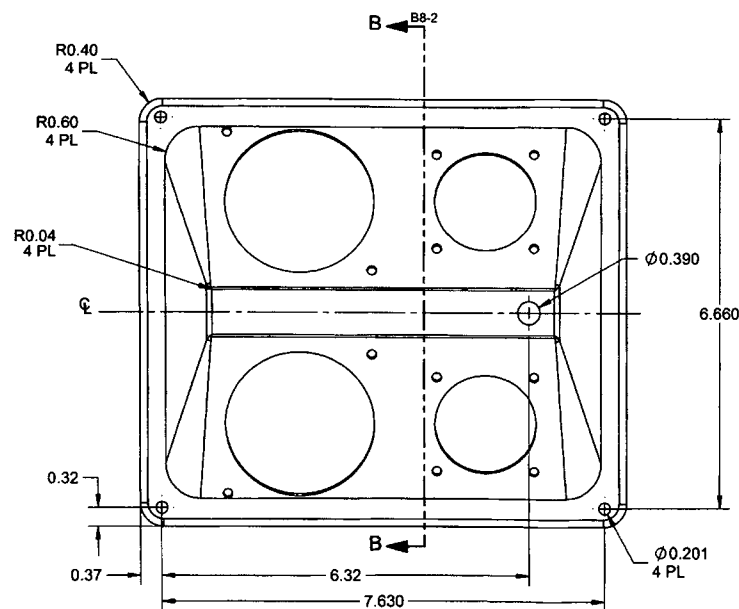
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		
<input type="checkbox"/> Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other		



**SECTION B-B**  
B5-2



- NOTES:**
- 1) MATERIAL: SEE TABLE
  - 2) TOOLING: THERMOFORM PER MOLD DT9932 PER QSI 022 TRIM PER DT9932
  - 3) FINISH: N/A
  - 4) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 5) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 6) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 7) IDENTIFICATION: N/A
  - 8) WEIGHT: 0.22 lbs
  - 9) REPLACES GENEVA P/N GA129-7
  - 10) PART SHAPE AND GEOMETRY IS CONTROLLED BY TOOLING
  - 11) MINIMUM THICKNESS AFTER FORMING IS 0.060" FOR FLANGES AND 0.070" ELSEWHERE

**D4888-1 DOME LIGHT HOUSING**

PART NUMBER	DESCRIPTION
D4888-1LBL	F6006 SUEDE/POLISHED 701 BLACK LEXAN SHEET 0.093 THICK (REF DART SPEC MLEXS.093-F6006-02)
D4888-1LLG	F6006 SUEDE/POLISHED GY5B133 LIGHT GREY LEXAN SHEET 0.093 THICK (REF DART SPEC MLEXS.093-F6006-07)

DESIGN		<b>DART AEROSPACE USA, INC.</b>
DRAWN		KENT, WA
CHECKED		DRAWING NO. <b>D4888</b>
MFG. APPR.		REV. A
APPROVED		SHEET 2 OF 3
DE APPR.		TITLE <b>DOME LIGHT AIR VENT ASSY</b>
DATE	13.07.11	SCALE NTS

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**RELEASED**  
2013-09-16

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

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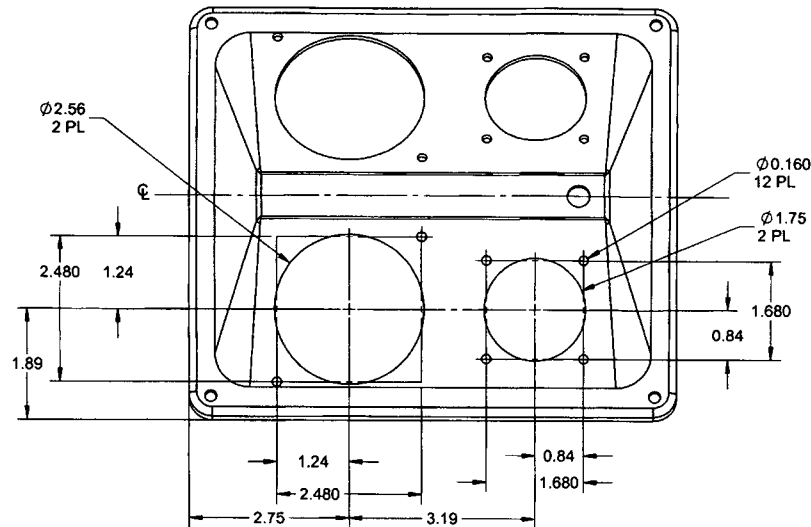
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**VIEW A-A**  
B2-2

**RELEASED**  
2013-09-16  
M

DESIGN	OS	<b>DART AEROSPACE USA, INC.</b>	
DRAWN	OS	KENT, WA	
CHECKED	DC	DRAWING NO.	REV. A
MFG. APPR.	HC	D4888	SHEET 3 OF 3
APPROVED	HC	TITLE	SCALE
DE APPR.	HC	<b>DOM LIGHT AIR VENT ASSY</b>	NTS
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## Patrick Smith

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**From:** David Shepherd  
**Sent:** March-03-14 9:35 PM  
**To:** Patrick Smith; Roberto Fuentes  
**Cc:** Chris Provencal; Mike Petsche  
**Subject:** RE: Emailing: Feb 28, 2014 Dome Light Air Vent 007.jpg, Feb 28, 2014 Dome Light Air Vent 001.jpg

Pat,

As discussed, your proposal is acceptable to me.

Regards,  
David

-----Original Message-----

**From:** Patrick Smith  
**Sent:** February-28-14 1:13 PM  
**To:** Roberto Fuentes  
**Cc:** Chris Provencal; Mike Petsche; David Shepherd  
**Subject:** FW: Emailing: Feb 28, 2014 Dome Light Air Vent 007.jpg, Feb 28, 2014 Dome Light Air Vent 001.jpg

Roberto,

How are you doing?

I have a question for you regarding the Dome Light installation.

While tightening the screws the assembler found the screws are pulling the plastic material into the Dome Light Frame due to the countersink.

Could we drill symmetrical holes between the existing holes without countersinking and sign it of as a deviation.

Pat

-----Original Message-----

**From:** Lisa McMachen  
**Sent:** February-28-14 2:54 PM  
**To:** Patrick Smith  
**Subject:** Emailing: Feb 28, 2014 Dome Light Air Vent 007.jpg, Feb 28, 2014 Dome Light Air Vent 001.jpg

Hey,  
Here are the images that you requested.

Thanks,  
Lisa McMachen

Your message is ready to be sent with the following file or link attachments:

Feb 28, 2014 Dome Light Air Vent 007.jpg Feb 28, 2014 Dome Light Air Vent 001.jpg

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.